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	Application No.	Applicant(s)	
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Notice of Allowability	Examiner	Art Unit	
	Roy M. Punnoose	2877	
The MAILING DATE of this communication apperature of the communication apperature of the communication apperature of the communication apperature of the communication and the communication apperature of the communication is responsive to letter received April 10.	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s and MPEP 1308.	this application. If not included inication will be mailed in due co	l ourse. THIS
2. The allowed claim(s) is/are <u>1-22</u> .			
3. ☑ The drawings filed on <u>13 February 2002</u> are accepted by t	he Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicatio	n No	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requ	iirements
5. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EXA es reason(s) why the oath or	MINER'S AMENDMENT or NO declaration is deficient.	TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the second of the sheet.	son's Patent Drawing Review s Amendment / Comment or 84(c)) should be written on the	in the Office action of	ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			ote the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 2/2002; 10/2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview St Paper No./ 7. ☒ Examiner's	formal Patent Application (PTO- Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allow 	/ance

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Atty. Michael A. Bernadicou (Registration No. 35,934) on October 26, 2004.

The examiner's amendment was done to cancel claims 23-25.

- 2. The claims have been amended as follows:
 - a. Cancel claims 23-25.

Allowable Subject Matter

- 3. Claims 1-22 are allowable.
- 4. Claims 1 and 7 are allowable because the prior art of record, taken alone or in combination, fails to disclose or render obvious a method comprising measuring a test variable of a test layer formed on a test substrate in a processing chamber, and using the test variable to select a reference process condition in a consolidated data set of reference variables against reference process variables, a location of the reference process condition among the reference process variables depending on a location of the test variable among the reference variables, in combination with the rest of the limitations of said claims:
- 5. Claims 2-6 and 8 are allowable because they are dependent on independent claims 1 and 7 respectively, or an intermediate claim.

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6. Claim 9 is allowable because the prior art of record, taken alone or in combination, fails to disclose or render obvious a method comprising forming a test layer on the surface of a test substrate while a heater creates a test heat flux over the surface of the test substrate in a processing chamber, comparing a test variable indicative of growth rate of the test layer with a reference variable indicative of growth rate of a reference layer when a reference heat flux is created over a surface of a reference substrate, inserting a process substrate into the processing chamber, and setting the heater to create a process heat flux over a surface of the process substrate, the process heat flux being selected based upon the comparison of the test variable with the reference variable, in combination with the rest of the limitations of said claim.

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- 7. Claim 10 is allowable because the prior art of record, taken alone or in combination, fails to disclose or render obvious a method comprising forming a test layer on the surface of a test substrate in a processing chamber while a heater creates a test heat flux over the surface of the test substrate, utilizing a pyrometer to detect infrared radiation from the test layer while the test layer is being formed, the pyrometer generating a signal varying with variations in magnitude of the infrared radiation, calculating a test value indicative of a length of a period of the signal, selecting a desired process value from data of different reference process values, comparing the test value with a desired reference value, and adjusting the heater based upon said comparison, in combination with the rest of the limitations of said claim.
- 8. Claims 11-22 are allowable because they are dependent on independent claim 10, or an intermediate claim.
- 9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the 10. examiner should be directed to Roy M. Punnoose whose telephone number is 571-272-2427. The examiner can normally be reached on 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571-272-2800 ext.77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roy M. Punnoose Patent Examiner Art Unit 2877

October 26, 2004